B.B.M.P

BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: KODIGEHALLI

Name of Work: Estimate for Construction of Culverts in Verious Places in Ward No. 09, Amruthahalli.

Estimated Cost Rs. 10.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK:- Construction of Culverts in Verious Places in Ward No. 09, Amruthahalli.

Estimation Cost.Rs 1000000.00

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
1	Earth work Excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. **(PWD SR 2021-22 Vol - I Pg No. 5 item No. 1.4.1)**	Cum							
	Culvert								
			8	5.40	1.95	1.05	88.45		
	Basic rate	186.00							
	Area weightage 10%	18.60							
	Sub Total	204.60							
	Total						**88.45**	204.60	**18097.00**
3	Providing and laying in position Plain Cement Concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. **(PWD SR 2021-22 Vol -I Pg 15 item no 2.1.3)**	Cum							
	Culvert								
			8	5.40	1.80	0.15	11.66		
	Issued Rate 07-07-2022 Basic rate	5554.00							

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
	Area weightage 10%	555.40							
	Sub Total	6109.40							
	Total						**11.66**	6109.40	**71236.00**
4	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand) **Item No. 5.4, Page No. 9, Vol - II PWD SR 2021-22**	Cum							
	Culvert SSM Wall								
	First Course								
			2x8	5.40	0.60	0.45	23.33		
	Second Course								
			2x8	5.40	0.45	0.45	17.50		
	Basic rate	5422.00							
	Area weightage 10%	542.20							
	Sub Total	**5964.20**							
	Total						**40.82**	5964.20	**243483.00**
5	Providing ruled pointing to cursed stone masonry with lime mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost all materials, labour, usage charges of machinery, curing complete as pre specification. **Item No. 21.10 Page No. 190, Vol - II PWD SR 2021-22**	Sqm							
	Pointing		2x8	5.40		0.90	77.76		
	Basic rate	238.00							
	Area weightage 10%	23.80							
	Sub Total	**261.80**							
	Total						**77.76**	261.80	**20358.00**

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
8	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite / trap / basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately **Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregate (PWD SR 2021-22 Vol -I Pg 15 item no 2.1.4))**	Cum							
	Vent Concrete Culvert								
			8	5.40	1.50	0.10	6.48		
	Ramp								
			2x8	5.40	1.00	0.15	12.96		
	Issued Rate 07-07-2022 Basic rate	5728.00							
	Area weightage 10%	572.80							
	Sub Total	6300.80							
	Total						**19.44**	6300.80	**122488.00**
10	Providing and Fixing pre cast Covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete. As per Engineer incharge **(Data Rate).**	Sqm							
	For Culvert								
			8	5.40	1.50		64.80		
	Data rate	5418.00							
	Total						**64.80**	5418.00	**351086.00**
17	Loading and Unloading of Stone Boulder / Stone aggregates / Sand / Kankar / Moorum. (Tipper 14 m3) **(PWD SR 2021-22 Vol-III Page No.3, Item No.1.1C)**	Cum							
	Qty Vide 90% of Item No. - (1)						84.03		
	Total						**84.03**	81.40	**6840.00**
	Basic rate	74.00							

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
	Area Weightage 10%	7.40							
	Total	81.40							
18	Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km **(PWD SR 2021-22 Vol-III Page No.3, Item No.1.4B)**	T.Km							
	Qty Vide Item No. 17						84.03		
	Density of Sand/Debris i.e 1.28 Tonne / Cum			84.03	1.28		107.55		
	Cost of Haulage Excluding Loading and Unloading on Surface Road to a distance of 10.00 Kms			107.55	10.00		1075.50		
	Total						**1075.50**	12.00	**12906.00**
	Basic rate	12.00							
								Grand Total	**846494.00**
								GST Charges (18% of Executed cost)	**152369.00**
								Miscellenious and rounding off	**1137.00**
								Total Amount	**1000000.00**
Rupees Ten Lakh(s) Only									

CERTIFICATE:

1) The work spot has been inspected and found to be necessary.
2) The work spot comes under B.B.M.P Limits.
3) The provisions made in the estimate are necessary and minimum.
4) The estimate is based on C.S.R of PWD 2021-22, Issue rates and Data Rates.

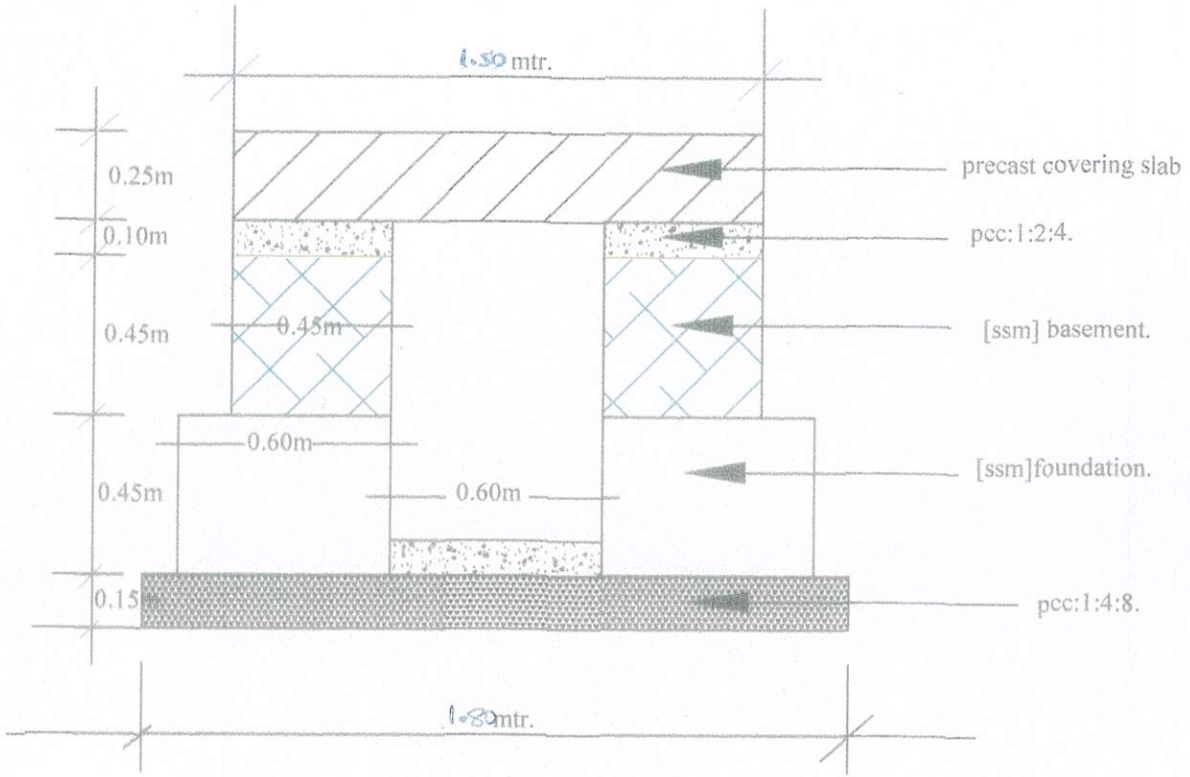
Assistant Engineer
Ward No. 14, Vidyaranyapura

Assistant Executive Engineer
Vidyaranyapura Sub Division

Executive Engineer
Byatarayanapura Division

ADMINISTRATIVE APPROVAL
Accorded For Rs. 10.00 lakhs only
Head of A/c. P3726
Div. Ref No. 19 Date 16/09/22
AE
EE(BTP)

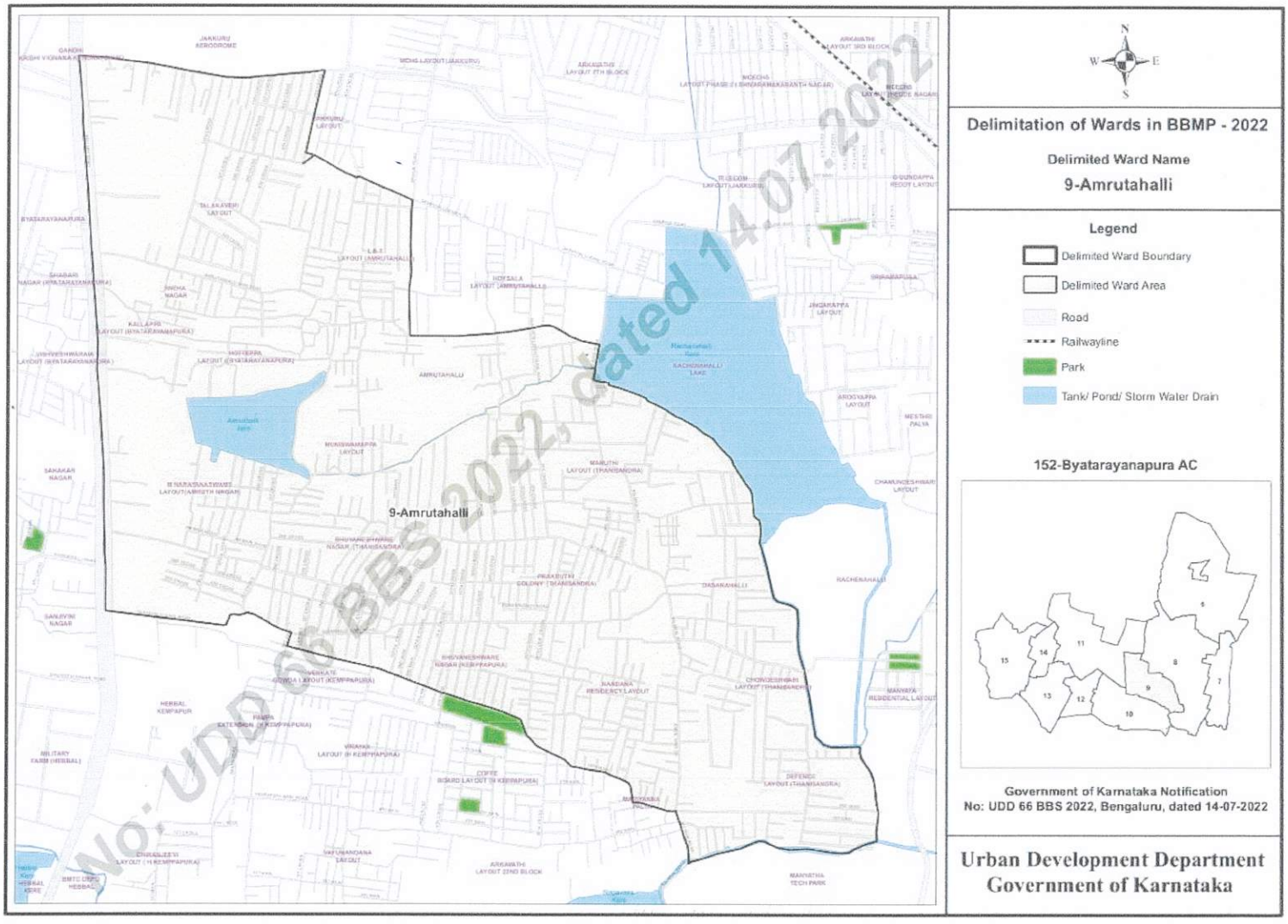
TECHNICAL SANCTION
Accorded For Rs. 10.00 lakhs only
Head of A/c. P3726
Div. Ref. No. 19 Date 16/09/22
AE
EE(BTP)



CROSS SECTION OF CULVERT

ASSISTANT ENGINEER.

ASSISTANT EXECUTIVE ENGINEER.


9-Amrutahalli
N
W
E
S
Delimitation of Wards in BBMP - 2022
Delimited Ward Name
9-Amrutahalli
Legend
Delimited Ward Boundary
Delimited Ward Area
Road
Railwayline
Park
Tank/ Pond/ Storm Water Drain
152-Byatarayanapura AC
Government of Karnataka Notification
No: UDD 66 BBS 2022, Bengaluru, dated 14-07-2022
Urban Development Department
Government of Karnataka
No: UDD 66 BBS 2022, dated 14.07.2022